

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 00:09:23 ; Search time 8498.8 Seconds
(without alignments)
29.081 Million cell updates/sec

Title: US-09-851-670-14

Perfect score: 23
Sequence: 1 gagaacacccgcctctcgcgaac 23

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 11351937 seqs, 537289281 residues

Total number of hits satisfying chosen parameters: 111874

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estfun:*
2: em_esthum:*
3: em_estin:*
4: em_estom:*
5: em_estipl:*
6: em_estlba:*
7: em_estro:*
8: em_estrov:*
9: em_hlc:*
10: gb_est1:*
11: gb_est2:*
12: gb_hlc:*
13: gb_gss:*
14: em_gss_fun:*
15: em_gss_hum:*
16: em_gss_inv:*
17: em_gss_pln:*
18: em_gss_pro:*
19: em_gss_rtd:*
20: em_gss_vrt:*
21: em_gss_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15.8	68.7	52	10	AM693240 NF062A03S
2	14.6	63.5	50	10	AU107235 AU107235
3	14	60.9	40	10	A1859778 wm21e09.x
4	13.6	59.1	40	13	A2463268 1M0272B01
5	13.4	58.3	34	13	AQ025206 EP(3)1249
6	13.4	58.3	49	13	A2514447 1M0361M14
7	13.2	57.4	60	13	A2494986 1M0330A09
8	13	56.5	25	13	A2303786 1M0003G03
9	13	55.5	59	10	AA098077 mk18g04.r
10	12.8	55.7	55	10	AA894695 o127d05.s
11	12.6	54.8	26	13	A2342914 1M0076C22
12	12.6	54.8	26	13	TA194F010 AL477302 T. brucei

C 13	12.6	54.8	35	13	A2845779	A2845779 2M0145B13
C 14	12.6	54.8	50	10	AU106768	AU106768 AU106768
C 15	12.4	53.9	32	13	A2462085	A2462085 1M0269P08
C 16	12.4	53.9	45	13	A2635879	A2635879 1M0493022
C 17	12.4	53.9	46	10	A1811483	A1811483 tw43d02.x
C 18	12.4	53.9	49	10	AM432778	AM432778 sh82h02.y
C 19	12.4	53.9	57	13	AM424126	AM424126 sh61c07.y
C 20	12.4	53.9	50	13	AQ024986	AQ024986 EP(2)0892
C 21	12.4	53.9	58	10	A1499235	A1499235 t008g07.x
C 22	12.2	53.0	21	13	A2581103	A2581103 1M0369E22
C 23	12.2	53.0	21	13	A2857747	A2857747 2M0162J08
C 24	12.2	53.0	36	13	BH011404	BH011404 BG01613-5
C 25	12.2	53.0	40	13	TA253H01Q	TA253H01Q T. brucei
C 26	12.2	53.0	49	10	A1792794	A1792794 om81c01.y
C 27	12.2	53.0	49	10	AA429584	AA429584 zw77h05.x
C 28	12.2	53.0	50	10	AU103878	AU103878 AU103878
C 29	12.2	53.0	50	10	AU103887	AU103887 AU103887
C 30	12.2	53.0	50	10	AU106770	AU106770 AU106770
C 31	12.2	53.0	52	11	BF643352	BF643352 NF004A05E
C 32	12.2	53.0	58	13	A2920130	A2920130 1006018C0
C 33	12	52.2	30	13	AQ025600	AQ025600 1(2)02839
C 34	12	52.2	41	11	H93873	H93873 yv08e06.r1
C 35	12	52.2	43	10	A1245483	A1245483 qk30b11.x
C 36	12	52.2	46	10	A1744926	A1744926 tr17c11.x
C 37	12	52.2	46	13	A2810625	A2810625 2M0076H14
C 38	12	52.2	49	10	AA663894	AA663894 ae74c09.s
C 39	12	52.2	50	13	AQ025192	AQ025192 EP(3)1161
C 40	12	52.2	51	13	AQ025045	AQ025045 EP(2)1176
C 41	12	52.2	51	13	A2575776	A2575776 AST-T31B0
C 42	12	52.2	52	10	BE321098	BE321098 NF021G041
C 43	12	52.2	52	11	BF631938	BF631938 NF017G09D
C 44	11.8	51.3	26	13	TA65F020	TA65F020 T. brucei
C 45	11.8	51.3	31	10	A1383811	A1383811 tc98f11.x

ALIGNMENTS

RESULT 1	AM693240	52 bp	mRNA	EST	20-DEC-2000
LOCUS	NF062A03ST1E1000	Developing stem	Medicago truncatula	CDNA clone	
DEFINITION	NF062A03ST 5', mRNA sequence.				
ACCESSION	AM693240.2	GI:11933549			
VERSION	AM693240.2				
KEYWORDS	EST.				
SOURCE	barrel medic.				
ORGANISM	Medicago truncatula				
	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifoliales; Medicago.				
REFERENCE	1 (bases 1 to 52)				
AUTHORS	He,X.-Z., Shadle,G., Scott,A.D., Harris,A.R., Gonzales,R.A., Bell,C.J., Flores,H.R., Imman,J.T., Weller,J.W., May,G.D. and Dixon,R.A.				
TITLE	Expressed Sequence Tags from the Samuel Roberts Noble Foundation				
JOURNAL	Medicago truncatula stem library				
COMMENT	Unpublished (2000) On Apr 14, 2000 this sequence version replaced gi.7567976. Contact: Dixon RA Plant Biology Division The Samuel Roberts Noble Foundation 2510 Sam Noble Parkway, Ardmore, OK 73402, USA Tel: 580 221 7302 Fax: 580 221 7380 Email: radixon@noble.org Insert Length: 752 Std Error: 0.00 Plate: 062 Row: A Column: 03 Seq primer: TCACACAGCAACACCTATGAC. Location/Qualifiers 1..52 /organism="Medicago truncatula"				
FEATURES	source				

/db_xref="taxon:3880"
/clone="NF062A03ST"
/clone_lib="Developing stem"
/tissue_type="stem"
/dev_stage="Pooled developmental"
/note="Vector: Lambda Zap; Contains a mixture of
intermodal stem segments"

BASE COUNT 12 a 22 c 2 g 16 t
ORIGIN

Query Match 68.7%; Score 15.8; DB 10; Length 52;
Best Local Similarity 89.5%; Pred. No. 4.5e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 aacacccgctctcgcaa 22
||||| ||||| |||
Db 9 AACACCCACTCTCTCA 27

RESULT 2
LOCUS AU107235 50 bp mRNA EST 05-APR-2001
DEFINITION AU107235 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
ACCESSION AU107235
VERSION AU107235.1 GI:13556756
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata
H., Ota,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okubo
K., Suyama,A. and Sugano,S.
TITLE Fine structural analysis of transcription start sites of human
mRNAs using full-length enriched and 5'-end enriched cDNA libraries
JOURNAL Unpublished (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
S. Construction and characterization of a full length-enriched
and 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source
1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="LNC07514"
/clone_lib="Sugano Homo sapiens cDNA library"

BASE COUNT 16 a 15 c 9 g 10 t
ORIGIN

Query Match 63.5%; Score 14.6; DB 10; Length 50;
Best Local Similarity 81.0%; Pred. No. 1.4e+04;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 agaacacccgctctcgcaa 22
||||| ||||| |||
Db 22 AGAACACCTCTCTCTCA 42

RESULT 3
LOCUS AI859778 40 bp mRNA EST 07-MAR-2000
DEFINITION AI859778 mm21e09.x1 NCI-CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2436616 3'
similar to TR:Q08380 Q08380 MAC-2 BINDING PROTEIN PRECURSOR. ;,
mRNA sequence.
ACCESSION AI859778

VERSION AI859778.1 GI:5513479
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 40)
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: c9abds-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA library Preparation: Life Technologies, Inc.
CDNA library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

FEATURES
source
1..40
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2436616"
/clone_lib="NCI-CGAP_Ut4"
/tissue_type="serous papillary carcinoma, high grade, 2
pooled tumors"
/lab_host="DH10B"
/note="Organ: uterus; Vector: PCMV-SPORT6; Site:1: Salt;
Site:2: NotI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.48 kb. Life Technologies catalog #:
11542-016"

BASE COUNT 13 a 13 c 9 g 5 t
ORIGIN

Query Match 60.9%; Score 14; DB 10; Length 40;
Best Local Similarity 77.3%; Pred. No. 2.6e+04;
Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 agaacacccgctctcgcaa 23
||||| ||||| |||
Db 7 AGAACACCTCTCTCTCA 28

RESULT 4
LOCUS AZ463268 40 bp DNA GSS 04-OCT-2000
DEFINITION IM0272B01F Mouse 10kb plasmid UGCCIM library Mus musculus genomic
clone UGCCIM0272B01 F, DNA sequence.
ACCESSION AZ463268
VERSION AZ463268.1 GI:10621393
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 40)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D. Weiss, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss

University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0272 row: B column: 01
Seq primer: CGTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 40.

FEATURES

source

1. 40
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C1M0272B01"
/clone_lib="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42HV; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (9114732114[gblAF129072.1]), a copy-number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

5 a 20 c 2 g 13 t

ORIGIN

Query Match 59.1%; Score 13.6; DB 13; Length 40;
Best Local Similarity 80.0%; Pred. No. 3.8e+04;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Oy 1 gagacaccgcgtctctcgc 20
||| ||||| ||||| |||
Db 2 GAACGACCCCTCTCTCTC 21

RESULT 5
LOCUS A0025206/c
DEFINITION EP(3)1249 Drosophila melanogaster EP line Drosophila melanogaster
genomic Sequence recovered from 5' end of P element, DNA sequence.
ACCESSION A0025206
VERSION A0025206.1 GI:3265558
KEYWORDS GSS.
SOURCE fruit fly
ORGANISM Drosophila melanogaster

REFERENCE

1 (bases 1 to 34)
Liao, G.-C., Rehm, E.J. and Rubin, G.M.

Insertion site preferences of the P transposable element in
Drosophila melanogaster

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3347-3351 (2000)

20202638
Contact: Gerald Rubin

JOURNAL MEDLINE
COMMENT

Berkeley Drosophila Genome Project
University of California, Berkeley
LSA Building, Berkeley, CA 94720-3200, USA
Fax: 5106433947
Email: gerry@fruitfly.berkeley.edu
Sequence recovery method was inverse PCR.

Sequence orientation is forward strand relative to 5' end of P element

The P element insertion position is base 27 in the 34 bases. This insertion position refers to the first base of the 8 base target recognition sequence.

Class: transposon-tagged.

FEATURES

source

1. 34
Location/Qualifiers
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone_lib="Drosophila melanogaster EP line"
/note="Inverse PCR was performed on Drosophila melanogaster strains each of which contains a single EP transposable element insertion. (The generation of these insertion strains is described in Roth P, Szabo K, Bailey A, Laverly T, Rehm J, Rubin GM, Weigmann K, Milan M, Benes V, Ansoorge W, Cohen SM. 1998. Systematic gain-of-function genetics in Drosophila. Development 6:1049-1057.) The resultant fragment for each strain was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://fruitfly.berkeley.edu/P-discrupt/inverse_pcr.html."

BASE COUNT

4 a 5 c 17 g 8 t

ORIGIN

Query Match 58.3%; Score 13.4; DB 13; Length 34;
Best Local Similarity 93.3%; Pred. No. 4.5e+04;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 4 aacaccgcgtctctc 18
||| ||||| ||||| |||
Db 28 ACCACCCGCTCTCTC 14

RESULT 6
LOCUS A2514447
DEFINITION IM0361M14F Mouse 10kb plasmid U06C1M library Mus musculus genomic
clone U06C1M0361M14 F, DNA sequence.
ACCESSION A2514447
VERSION A2514447.1 GI:10695859
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS
TITLES
JOURNAL
COMMENT

1 (bases 1 to 49)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0361 row: M column: 14

/clone="IMAGE:1493385"
 /clone_lib="NCI_CGAP_kid3"
 /lab_host="DH10B"
 /note="Organ: Kidney; Vector: pRTT3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pRTT3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 9 a 6 c 30 g 9 t 1 others
 ORIGIN

Query Match 55.7%; Score 12.8; DB 10; Length 55;
 Best Local Similarity 87.5%; Pred. No. 8.6e+04;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 aacacccgctctctgc 20
 ||||| ||| |||||
 Db 22 ACACCCCTCTCCTCGC 7

RESULT 11
 A2342914 26 bp DNA GSS 29-SRP-2000
 LOCUS A2342914
 DEFINITION clone UUGC1M0076C22 F, DNA sequence.
 ACCESSION A2342914
 VERSION A2342914.1 GI:10420628
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 26)
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausen,A., and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunne@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0076 row: C column: 22
 Seq primer: CGTTGTAACGACGCGCCAGT
 Class: plasmid ends
 High quality sequence stop: 26.
 Location/Qualifiers

FEATURES

1. 26
 /organism="Mus musculus"
 /strain="C57BL/6j"
 /db_xref="taxon:10090"
 /clone="UUGC1M0076C22"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6j (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g11473211419b/AP129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 3 a 11 c 1 g 11 t
 ORIGIN

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 agaacacccgctctctgc 20
 ||||| | | ||||| |
 Db 1 AGAAGCTCTCTCTCTCTC 19

RESULT 12
 TA194F010/c 26 bp DNA GSS 13-DEC-2000
 LOCUS TA194F010/c
 DEFINITION T. Brucei sheared genomic DNA clone 194f01, reverse sequence, genomic survey sequence.
 ACCESSION AL477302
 VERSION AL477302.1 GI:11841328
 KEYWORDS GSS.
 SOURCE Trypanosoma brucei.
 ORGANISM Trypanosoma brucei
 Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.

REFERENCE 1 (bases 1 to 26)
 Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R., Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L., Melville,S.E., Rajandream,M.A. and Barrell,B.G.
 Direct Submission
 Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nlesanger.ac.uk
 Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + 1 method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org
 Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T-brucei/.

FEATURES

1. 26
 /organism="Trypanosoma brucei"
 /strain="TREU927"
 /db_xref="taxon:5691"
 /clone="194f01"
 BASE COUNT 0 a 3 c 11 g 12 t
 ORIGIN

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 5 acaccgcctctcgcaaa 23
||||| | | | | | | | | |
Db 21 ACACCGCGTACACGACACA 3

RESULT 13
A2845779/c 35 bp DNA GSS 20-FEB-2001
LOCUS 2M0145B13R Mouse 10kb plasmid UGCGIM library Mus musculus genomic
DEFINITION clone UGCG2M0145B13 R, DNA sequence.
ACCESSION A2845779
VERSION A2845779.1 GI:13015687
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 35)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamll,C.,
'M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0145 row: B column: 13
Seq primer: CACACGAGAAACACGTATGACC
Class: plasmid ends
High quality sequence stop: 35.
FEATURES
Source Location/Qualifiers
1..35
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGCG2M0145B13"
/clone_lib="Mouse 10kb plasmid UGCGIM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g1473214[gblAF129072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 3 a 15 g 16 t
ORIGIN 1 c

Query Match 54.8%; Score 12.6; DB 13; Length 35;
Best Local Similarity 78.9%; Pred. No. 1e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 5 acaccgcctctcgcaaa 23
||||| | | | | | | | | |
Db 35 ACACCGCGTACACGACACA 17

RESULT 14
AU106768/c 50 bp mRNA EST 05-APR-2001
LOCUS AU106768 SUGANO Homo sapiens CDNA library Homo sapiens CDNA clone
DEFINITION HEP11938, mRNA sequence.
ACCESSION AU106768
VERSION AU106768.1 GI:13556289
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata
'H., Ota,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okudo
'K., Suyama,A. and Sugano,S.
Fine structural analysis of transcription start sites of human
mRNAs using full-length enriched and 5'-end enriched cDNA libraries
unpublished (2001)
JOURNAL Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
'S. Construction and characterization of a full length-enriched and
a 5'-end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES
source Location/Qualifiers
1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HEP11938"
/clone_lib="Sugano Homo sapiens CDNA library"
BASE COUNT 12 a 11 c 17 g 10 t
ORIGIN 11 c

Query Match 54.8%; Score 12.6; DB 10; Length 50;
Best Local Similarity 78.9%; Pred. No. 1e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 2 agaaccgcctctcgcc 20
||||| | | | | | | | | |
Db 40 AGCACCGCGCTCCTCTC 22

RESULT 15
A2462085 32 bp DNA GSS 04-OCT-2000
LOCUS A2462085
DEFINITION IM0269P08F Mouse 10kb plasmid UGCGIM library Mus musculus genomic
clone UGCGIM0269P08 F, DNA sequence.
ACCESSION A2462085
VERSION A2462085.1 GI:10620210
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 32)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamll,C.,
'M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss

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University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0269 row: P column: 08
Seq primer: CGTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 32.

FEATURES
Source

1. . 32
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUC1M0269P08"
/clone_lib="Mouse 10kb plasmid UUC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN

7 a 14 c 1 g 10 t

Query Match 53.9%; Score 12.4; DB 13; Length 32;
Best Local Similarity 92.9%; Pred. No. 1.2e+05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 5 aacccgctcttc 18
|||||
DB 3 ACACCCACTCTCTC 16

Search completed: March 9, 2002, 00:09:25
Job time: 11041 sec